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Gebrauchsmuster

U1

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(54) Bezeichnung des Gegenstandes

Kunststoffschaumplatte oder -bahn

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Rechercheantrag gemäß § 7 Abs. 1 GbmG gestellt

*Translation
Attached*

In der Zeichnung ist ein Ausführungsbeispiel der Erfindung dargestellt.

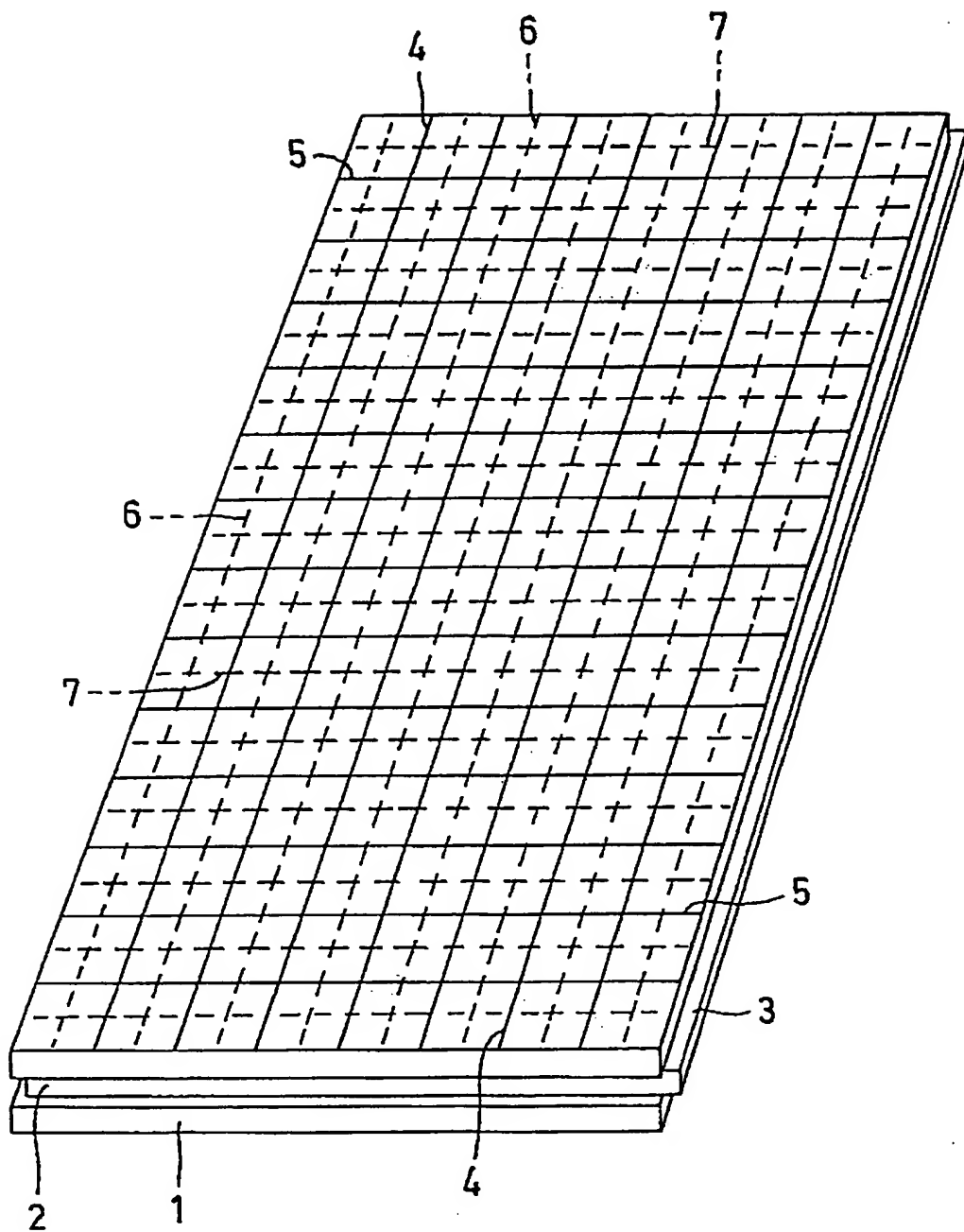
Mit 1 ist eine 10 cm dicke Kunststoffschaumplatte aus Polyethylen mit einem Raumgewicht von 40 kg/ccm bezeichnet. Die Platte 1 ist mit Nuten 2 und Federn 3 versehen, so daß die Platten zu einem mehr oder weniger festen Gebilde ineinandergeschoben werden können.

Auf der Plattenoberseite finden sich linienbildende Vertiefungen 4, 5, 6 und 7. Die linienbildenden Vertiefungen 4 und 6 verlaufen parallel zueinander, desgleichen die linienbildenden Vertiefungen 5 und 7. Während die linienbildenden Vertiefungen 4 und 5 durchgehende Linien bilden, bilden die übrigen Vertiefungen unterbrochene (gestrichelte) Linien. Die zu den Vertiefungen 4 und 6 gehörenden Linien stehen senkrecht auf den zu den Vertiefungen 5 und 7 gehörenden Linien.

Im Ausführungsbeispiel beträgt der Abstand der parallel verlaufenden Linien 0,5 dm, so daß ein 1/2 dm-Raster gegeben ist. Betrachtet man allein die zu den Vertiefungen 4 und 5 gehörenden Linien, so ist ein 1/1 dm-Raster gegeben.

In einem weiteren nicht dargestellten Ausführungsbeispiel sind statt der Vertiefungen Erhebungen vorgesehen.

Als vorteilhafte Nebenwirkung der erfindungsgemäßen Raster zeigt sich eine verbesserte Haftfähigkeit der Platten beim Verlegen mit Kleber oder Mörtel.



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FOAMED PLASTIC PANEL OR SHEET

The present invention pertains to a foamed plastic panel or foamed plastic sheet for the purposes of construction, in particular for footstep sound insulation.

Foamed plastic panels or sheets are delivered in standard sizes. This has production reasons as well as transportation reasons. The manufacture of the sheets and panels is limited to certain widths. In addition, a length limitation arises from necessary handling possibilities. In the case of panels, the length is usually 2 m. Panels are delivered in stacks, whereby each stack is preferably wrapped and is protected separately with a film.

At the construction site, the panels and sheets must be put next to one another and be adapted to the respective conditions. This happens by means of cutting into sections, trimming, inserting cutouts and other measures.

The adaptation takes place by means of sawing or cutting depending on the panel thickness or the sheet thickness. At any rate, the work is expensive, whereby a large number of errors occur in our experience, even though the measurement preceding the adaptation is relatively simple.

The basic object of the present invention is to reduce the adaptation expense as well as to reduce the errors. It is accomplished according to the present invention by means of molded-in and/or molded-on and/or applied 1/2-cm grids and/or 1/1-cm grids and/or 1/2-dm grids and/or 1/1-dm grids. By means of the grids, the necessary dimension can be set easily and exactly for the adaptation to the panels and sheets.

Lines that run at 90° to one another and parallel to one another are designated by grids. The parallel running lines have a distance from one another that is 1/2 cm, 1 cm, 1/2 dm or 1 dm depending on the dimension of the grid. The lines can be formed by raised sections and/or recessed sections. The recessed sections are formed by molding in, the raised sections by molding on.

Also, it is advantageous if molded-in and/or molded-on and/or applied numbers and/or letters are provided at intervals on the lines. This also facilitates the setting of the dimensions necessary for the adaptation of the panels and sheets.

Besides, favorable conditions can be obtained in that different lines are used for 1/2 grids and 1/1 grids. The differences may be in the thickness of the lines; likewise, an interruption of lines, as well as a dash-dot line is possible.

An exemplary embodiment of the present invention is shown in the drawing.

A 10-cm-thick foamed plastic panel made of polyethylene and having a bulk density of 40 kg/cm³ is designated by 1. The panel 1 is provided with grooves 2 and tongues 3, so that the said panels can be pushed into one another to form a more or less firm structure.

There are line-forming recessed sections 4, 5, 6 and 7 on the top side of the panel. The line-forming recessed sections 4 and 6 run parallel to one another, as do the line-forming recessed sections 5 and 7. While the line-forming recessed sections 4 and 5 form continuous lines, the remaining recessed sections form interrupted (dashed) lines.

The lines belonging to the recessed sections 4 and 6 are at right angles to the lines belonging to the recessed sections 5 and 7.

In the exemplary embodiment, the distance between the lines running in parallel to one another is 0.5 dm, so that a 1/2-dm grid is given. If only the lines belonging to the recessed sections 4 and 5 are taken into account, then a 1/1-dm grid is given.

In another exemplary embodiment (not shown), raised sections are provided instead of the recessed sections.

An improved adhesiveness of the panels when installed with adhesive or mortar proves to be an advantageous side effect of the grids according to the present invention.

PATENT CLAIMS

1. Foamed plastic panel or sheet for construction purposes, and in particular for footstep sound installation, characterized by a said molded-in and/or molded-on and/or applied 1/2-cm grid and/or 1/1-cm grid and/or 1/2-dm grid and/or 1/1-dm grid.
2. Means in accordance with claim 1, characterized in that the grid lines are formed by means of said raised sections and/or recessed sections (4, 5, 6, 7).
3. Means in accordance with claim 1 or 2, characterized by molded-in and/or molded-on and/or applied numbers and/or letters at intervals.
4. Means in accordance with one or more of the claims 1 through 3, characterized by different lines for 1/2 grids and 1/1 grids.

Figure